(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 7 October 2004 (07.10.2004)

PCT

(10) International Publication Number WO 2004/085631 A2

- (51) International Patent Classification7: C12N 5/06, 15/11
- (21) International Application Number:

PCT/CA2004/000456

- (22) International Filing Date: 26 March 2004 (26.03.2004)
- (25) Filing Language:

(26) Publication Language:

English

(30) Priority Data:

28 March 2003 (28.03.2003) US

60/458,863 60/526,385

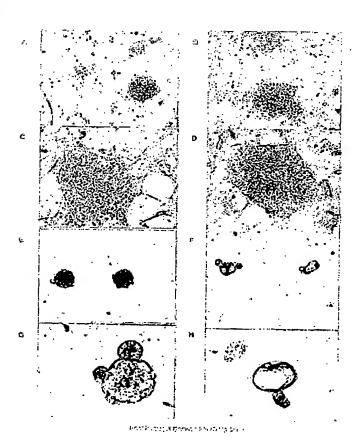
1 December 2003 (01.12.2003)

(71) Applicants (for all designated States except US): MOUNT SINAI HOSPITAL [CA/CA]; 600 University Avenue, Room 970, Toronto, Ontario M5G 1X5 (CA). SON-NYBROOK AND WOMEN'S COLLEGE HEALTH SCIENCE CENTER [CA/CA]; 2075 Bayview Avenue, Toronto, Ontario M4N 3M5 (CA).

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ROSIC-KABLAR, Suzana [CA/CA]; 53 Thorncliffe Park Drive, Toronto, Ontario M4H 1L1 (CA). HOUGH, Margaret R. [CA/CA]; 218 Airdrie, Toronto, Ontario M4G 1M8 (CA). NAGY, Andras [CA/CA]; 50 John Street, Apartment 1009, Toronto, Ontario M5V 3T5 (CA).
- (74) Agents: KURDYDYK, Linda et al.; McCarthy Tetrault, 66 Wellington Street West, Suite 4700, P.O. Box 48, Toronto Dominion Bank Tower, Toronto Dominion Centre, Toronto, Ontario M5K 1E6 (CA).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,

[Continued on next page]

(54) Title: CANINE EMBRYONIC STEM CELLS



(57) Abstract: The invention relates to canine embryonic stem cells, methods of cultivation and propagation of the cells, and production of differentiated cells. The embryonic stem cells may be obtained by isolating a canine embryo, culturing the embryo in the presence of a feeder layer and one or more proliferation agent, removing a blastocyst outgrowth, and culturing the outgrowth in the presence of a fresh feeder layer.

WO 2004/085631 A2

L CENTR CHILLICH AL CETAR HOLL COM CENTRALISM OF A LIGHT CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR

PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.